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#1 1/2

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/713,098

DATE: 11/29/2000
TIME: 09:05:34

Input Set : A:\1051Q.app
Output Set: N:\CRF3\11292000\I713098.raw

P.5

ENTERED

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  3 <110> APPLICANT: Zlot, Constance H.
  4       Adema, Gosse J.
  5       Figdor, Carl
  6       Phillips, Joseph H.
  8 <120> TITLE OF INVENTION: Mammalian Genes; Related Reagents and Methods
 10 <130> FILE REFERENCE: DX1051Q
C--> 12 <140> CURRENT APPLICATION NUMBER: US/09/713,098
C--> 13 <141> CURRENT FILING DATE: 2000-11-14
 15 <160> NUMBER OF SEQ ID NOS: 9
 17 <170> SOFTWARE: PatentIn Ver. 2.0
 19 <210> SEQ ID NO: 1
 20 <211> LENGTH: 1960
 21 <212> TYPE: DNA
 22 <213> ORGANISM: primate
 24 <220> FEATURE:
 25 <221> NAME/KEY: CDS
 26 <222> LOCATION: (58)..(1467)
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 31 atg ggt atc tgg acc tca ggc act gat atc ttc cta agt ctt tgg gag    105
 32 Met Gly Ile Trp Thr Ser Gly Thr Asp Ile Phe Leu Ser Leu Trp Glu
 33  1               5                  10                  15
 35 att tac gtg tct cca aga agc ccc gga tgg atg gac ttt atc cag cat    153
 36 Ile Tyr Val Ser Pro Arg Ser Pro Gly Trp Met Asp Phe Ile Gln His
 37              20                  25                  30
 39 ttg gga gtt tgc tgt ttg gtt gct ctt att tca gtg ggc ctc ctg tct    201
 40 Leu Gly Val Cys Cys Leu Val Ala Leu Ile Ser Val Gly Leu Leu Ser
 41          35                  40                  45
 43 gtg gcc gcc tgc tgg ttt ctg cca tca atc ata gcg gcc gct gcc tcc    249
 44 Val Ala Ala Cys Trp Phe Leu Pro Ser Ile Ile Ala Ala Ala Ala Ser
 45      50                  55                  60
 47 tgg att atc acg tgt gtt ctg ctg tgt tgc tcc aag cat gca cga tgt    297
 48 Trp Ile Ile Thr Cys Val Leu Leu Cys Cys Ser Lys His Ala Arg Cys
 49  65                  70                  75                  80
 51 ttt att ctt ctt gtc ttt ctc tct tgt ggc ctg cgt gaa ggc agg aat    345
 52 Phe Ile Leu Leu Val Phe Leu Ser Cys Gly Leu Arg Glu Gly Arg Asn
 53                  85                  90                  95
 55 gct ttg att gca gct ggc aca ggg atc gtc atc ttg gga cac gta gaa    393
 56 Ala Leu Ile Ala Ala Gly Thr Gly Ile Val Ile Leu Gly His Val Glu
 57              100                 105                 110
 59 aat att ttt cac aac ttt aaa ggt ctc cta gat ggt atg act tgc aac    441
 60 Asn Ile Phe His Asn Phe Lys Gly Leu Leu Asp Gly Met Thr Cys Asn
 61          115                 120                 125
 63 cta agg gca aag agc ttt tcc ata cat ttt cca ctt ttg aaa aaa tat    489
 64 Leu Arg Ala Lys Ser Phe Ser Ile His Phe Pro Leu Leu Lys Lys Tyr
 65      130                 135                 140
 67 att gag gca att cag tgg att tat ggc ctt gcc act cca cta agt gta    537
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Input Set : A:\1051Q.app
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68 Ile Glu Ala Ile Gln Trp Ile Tyr Gly Leu Ala Thr Pro Leu Ser Val
69 145                 150                 155                 160
71 ttt gat gac ctt gtt tct tgg aac cag acc ctg gca gtc tct ctt ttc   585
72 Phe Asp Asp Leu Val Ser Trp Asn Gln Thr Leu Ala Val Ser Leu Phe
73                 165                 170                 175
75 agt ccc agc cat gtc ctg gag gca cag cta aat gac agc aaa ggg gaa   633
76 Ser Pro Ser His Val Leu Glu Ala Gln Leu Asn Asp Ser Lys Gly Glu
77             180                 185                 190
79 gtc ctg agc gtc ttg tac cag atg gca aca acc aca gag gtg ttg tcc   681
80 Val Leu Ser Val Leu Tyr Gln Met Ala Thr Thr Thr Glu Val Leu Ser
81         195                 200                 205
83 tcc ctg ggt cag aaq cta ctt gcc ttt gca ggg ctt tcg ctc gtc ctg   729
84 Ser Leu Gly Gln Lys Leu Leu Ala Phe Ala Gly Leu Ser Leu Val Leu
85     210                 215                 220
87 ctt ggc act ggc ctc ttc atg aag cga ttt ttg ggc cct tgt ggt tgg   777
88 Leu Gly Thr Gly Leu Phe Met Lys Arg Phe Leu Gly Pro Cys Gly Trp
89 225                 230                 235                 240
91 aag tat gaa aac atc tac atc acc aga caa ttt gtt cag ttt gat gaa   825
92 Lys Tyr Glu Asn Ile Tyr Ile Thr Arg Gln Phe Val Gln Phe Asp Glu
93                 245                 250                 255
95 agg gag aga cat caa cag agg ccc tgt gtg ctc ccg ctg aat aag gag   873
96 Arg Glu Arg His Gln Gln Arg Pro Cys Val Leu Pro Leu Asn Lys Glu
97             260                 265                 270
99 gaa agg agg aag tat gtc atc atc ccg act ttc tgg ccg act cct aaa   921
100 Glu Arg Arg Lys Tyr Val Ile Ile Pro Thr Phe Trp Pro Thr Pro Lys
101         275                 280                 285
103 gaa agg aaa aac ctg ggg ctg ttt ttc ctc ccc ata ctt atc cat ctc   969
104 Glu Arg Lys Asn Leu Gly Leu Phe Phe Leu Pro Ile Leu Ile His Leu
105     290                 295                 300
107 tgc atc tgg gtg ctg ttt gca gct gta gat tat ctg ctg tat cgg ctc   1017
108 Cys Ile Trp Val Leu Phe Ala Ala Val Asp Tyr Leu Leu Tyr Arg Leu
109 305                 310                 315                 320
111 att ttc tca gtg agc aag cag ttt caa agc ttg cca ggg ttt gag gtt   1065
112 Ile Phe Ser Val Ser Lys Gln Phe Gln Ser Leu Pro Gly Phe Glu Val
113                 325                 330                 335
115 cac ttg aaa ctg cac gga gag aaa caa gga act caa gat att atc cat   1113
116 His Leu Lys Leu His Gly Glu Lys Gln Gly Thr Gln Asp Ile Ile His
117             340                 345                 350
119 gat tct tcc ttt aat ata tct gtg ttt gaa ccc aac tgt atc cca aaa   1161
120 Asp Ser Ser Phe Asn Ile Ser Val Phe Glu Pro Asn Cys Ile Pro Lys
121         355                 360                 365
123 cca aaa ttc ctt cta tct gag acc tgg gtt cct ctc agt gtt att ctt   1209
124 Pro Lys Phe Leu Leu Ser Glu Thr Trp Val Pro Leu Ser Val Ile Leu
125     370                 375                 380
127 ttg ata tta gtg atg ctg gga ctg ttg tcc tct atc ctt atg caa ctt   1257
128 Leu Ile Leu Val Met Leu Gly Leu Leu Ser Ser Ile Leu Met Gln Leu
129 385                 390                 395                 400
131 aaa atc ctg gtg tca gca tct ttc tac ccc agc gtg gag agg aag cgc   1305
132 Lys Ile Leu Val Ser Ala Ser Phe Tyr Pro Ser Val Glu Arg Lys Arg
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Input Set : A:\1051Q.app
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133                 405                 410                 415
135 atc caa tat ctg cat gca aag ctg ctt aaa aaa aga tca aag cag ccg   1353
136 Ile Gln Tyr Leu His Ala Lys Leu Leu Lys Lys Arg Ser Lys Gln Pro
137             420                 425                 430
139 ctg gga gaa gtc aaa aga cgg ctg agt ctc tat ctt aca aag att cat   1401
140 Leu Gly Glu Val Lys Arg Arg Leu Ser Leu Tyr Leu Thr Lys Ile His
141         435                 440                 445
143 ttc tgg ctt cca gtc ctg aaa atg att agg aag aag caa atg gac atg   1449
144 Phe Trp Leu Pro Val Leu Lys Met Ile Arg Lys Lys Gln Met Asp Met
145     450                 455                 460
147 gca agt gca gac aag tca tgagagaccc cgactactcc tcagccacat         1497
148 Ala Ser Ala Asp Lys Ser
149 465                 470
151 cgcaccaaca attctcttca ggtctaggat ggcagtcact attcatgccg gataatagag 1557
153 aactatgtga cgcagtcctc tcaggagtct gagttacag agccaacttg cagcacctgg 1617
155 ttatgcctcc tttcatctca aagccaaaga gctgccaggt aaatggttat gtggtctatg 1677
157 ttccaaacaa accacatgat cttgcctgtg tcacaatgta acaagactct agctgggtcc 1737
159 cctggtgatg agtttcagca tagaataatg ttcaaggaaa agaaaacgaa aacagtttaa 1797
161 atctctacca cagcctcaca agcaaatgct aaggggaaca tacatgtaaa aagccagcaa 1857
163 actatcttca aactcttccg tccttaatgt cttccatggc tattgccccc acaatggtct 1917
165 cttttctccc tgctccctta ttaaagaact ctttctgaaa ccc                   1960
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169 <211> LENGTH: 470
170 <212> TYPE: PRT
171 <213> ORGANISM: primate
173 <400> SEQUENCE: 2
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175   1               5                  10                  15
177 Ile Tyr Val Ser Pro Arg Ser Pro Gly Trp Met Asp Phe Ile Gln His
178             20                  25                  30
180 Leu Gly Val Cys Cys Leu Val Ala Leu Ile Ser Val Gly Leu Leu Ser
181         35                  40                  45
183 Val Ala Ala Cys Trp Phe Leu Pro Ser Ile Ile Ala Ala Ala Ala Ser
184     50                  55                  60
186 Trp Ile Ile Thr Cys Val Leu Leu Cys Cys Ser Lys His Ala Arg Cys
187 65                  70                  75                  80
189 Phe Ile Leu Leu Val Phe Leu Ser Cys Gly Leu Arg Glu Gly Arg Asn
190                 85                  90                  95
192 Ala Leu Ile Ala Ala Gly Thr Gly Ile Val Ile Leu Gly His Val Glu
193             100                 105                 110
195 Asn Ile Phe His Asn Phe Lys Gly Leu Leu Asp Gly Met Thr Cys Asn
196         115                 120                 125
198 Leu Arg Ala Lys Ser Phe Ser Ile His Phe Pro Leu Leu Lys Lys Tyr
199     130                 135                 140
201 Ile Glu Ala Ile Gln Trp Ile Tyr Gly Leu Ala Thr Pro Leu Ser Val
202 145                 150                 155                 160
204 Phe Asp Asp Leu Val Ser Trp Asn Gln Thr Leu Ala Val Ser Leu Phe
205                 165                 170                 175
207 Ser Pro Ser His Val Leu Glu Ala Gln Leu Asn Asp Ser Lys Gly Glu
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Input Set : A:\1051Q.app
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208                 180                 185                 190
210 Val Leu Ser Val Leu Tyr Gln Met Ala Thr Thr Thr Glu Val Leu Ser
211         195                 200                 205
213 Ser Leu Gly Gln Lys Leu Leu Ala Phe Ala Gly Leu Ser Leu Val Leu
214     210                 215                 220
216 Leu Gly Thr Gly Leu Phe Met Lys Arg Phe Leu Gly Pro Cys Gly Trp
217 225                 230                 235                 240
219 Lys Tyr Glu Asn Ile Tyr Ile Thr Arg Gln Phe Val Gln Phe Asp Glu
220                 245                 250                 255
222 Arg Glu Arg His Gln Gln Arg Pro Cys Val Leu Pro Leu Asn Lys Glu
223             260                 265                 270
225 Glu Arg Arg Lys Tyr Val Ile Ile Pro Thr Phe Trp Pro Thr Pro Lys
226         275                 280                 285
228 Glu Arg Lys Asn Leu Gly Leu Phe Phe Leu Pro Ile Leu Ile His Leu
229     290                 295                 300
231 Cys Ile Trp Val Leu Phe Ala Ala Val Asp Tyr Leu Leu Tyr Arg Leu
232 305                 310                 315                 320
234 Ile Phe Ser Val Ser Lys Gln Phe Gln Ser Leu Pro Gly Phe Glu Val
235                 325                 330                 335
237 His Leu Lys Leu His Gly Glu Lys Gln Gly Thr Gln Asp Ile Ile His
238             340                 345                 350
240 Asp Ser Ser Phe Asn Ile Ser Val Phe Glu Pro Asn Cys Ile Pro Lys
241         355                 360                 365
243 Pro Lys Phe Leu Leu Ser Glu Thr Trp Val Pro Leu Ser Val Ile Leu
244     370                 375                 380
246 Leu Ile Leu Val Met Leu Gly Leu Leu Ser Ser Ile Leu Met Gln Leu
247 385                 390                 395                 400
249 Lys Ile Leu Val Ser Ala Ser Phe Tyr Pro Ser Val Glu Arg Lys Arg
250                 405                 410                 415
252 Ile Gln Tyr Leu His Ala Lys Leu Leu Lys Lys Arg Ser Lys Gln Pro
253             420                 425                 430
255 Leu Gly Glu Val Lys Arg Arg Leu Ser Leu Tyr Leu Thr Lys Ile His
256         435                 440                 445
258 Phe Trp Leu Pro Val Leu Lys Met Ile Arg Lys Lys Gln Met Asp Met
259     450                 455                 460
261 Ala Ser Ala Asp Lys Ser
262 465                 470
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266 <211> LENGTH: 1410
267 <212> TYPE: DNA
268 <213> ORGANISM: Artificial Sequence
270 <220> FEATURE:
271 <223> OTHER INFORMATION: Description of Artificial Sequence:reverse
272       translation
274 <220> FEATURE:
275 <221> NAME/KEY: misc_feature
276 <222> LOCATION: (1)..(1410)
277 <223> OTHER INFORMATION: n may be a, c, g, or t
279 <400> SEQUENCE: 3
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RAW SEQUENCE LISTING DATE: 11/29/2000
PATENT APPLICATION: US/09/713,098 TIME: 09:05:34

Input Set : A:\1051Q.app
Output Set: N:\CRF3\11292000\I713098.raw

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W--> 282 ccnmgnwsnc cnggntggat ggayttyath carcayytng gngtntgytg yytngtngcn 120
W--> 284 ytnathwsng tnggnytnyt nwsngtngcn gcntgytggt tyytnccnws nathathgcn 180
W--> 286 gcngcngcnw sntggathat hacntgygtn ytnytntgyt gywsnaarca ygcnmgntgy 240
W--> 288 ttyathytny tngtnttyyt nwsntgyggn ytnmgngarg gnmgnaaygc nytnathgcn 300
W--> 290 gcnggnacng gnathgtnat hytnggncay gtngaraaya thttycayaa yttyaarggn 360
W--> 292 ytnytngayg gnatgacntg yaayytnmgn gcnaarwsnt tywsnathca yttyccnytn 420
W--> 294 ytnaaraart ayathgargc nathcartgg athtayggny tngcnacncc nytnwsngtn 480
W--> 296 ttygaygayy tngtnwsntg gaaycaracn ytngcngtnw snytnttyws nccnwsncay 540
W--> 298 gtnytngarg cncarytnaa ygaywsnaar ggngargtny tnwsngtnyt ntaycaratg 600
W--> 300 gcnacnacna cngargtnyt nwsnwsnytn ggncaraary tnytngcntt ygcnggnytn 660
W--> 302 wsnytngtny tnytnggnac nggnytntty atgaarmgnt tyytnggncc ntgyggntgg 720
W--> 304 aartaygara ayathtayat hacnmgncar ttygtncart tygaygarmg ngarmgncay 780
W--> 306 carcarmgnc cntgygtnyt nccnytnaay aargargarm gnmgnaarta ygtnathath 840
W--> 308 ccnacnttyt ggccnacncc naargarmgn aaraayytng gnytnttytt yytnccnath 900
W--> 310 ytnathcayy tntgyathtg ggtnytntty gcngcngtng aytayytnyt ntaymgnytn 960
W--> 312 athttywsng tnwsnaarca rttycarwsn ytnccnggnt tygargtnca yytnaarytn 1020
W--> 314 cayggngara arcarggnac ncargayath athcaygayw snwsnttyaa yathwsngtn 1080
W--> 316 ttygarccna aytgyathcc naarccnaar ttyytnytnw sngaracntg ggtnccnytn 1140
W--> 318 wsngtnathy tnytnathyt ngtnatgytn ggnytnytnw snwsnathyt natgcarytn 1200
W--> 320 aarathytng tnwsngcnws nttytayccn wsngtngarm gnaarmgnat hcartayytn 1260
W--> 322 caygcnaary tnytnaaraa rmgnwsnaar carccnytng gngargtnaa rmgnmgnytn 1320
W--> 324 wsnytntayy tnacnaarat hcayttytgg ytnccngtny tnaaratgat hmgnaaraar 1380
W--> 326 caratggaya tggcnwsngc ngayaarwsn                                  1410
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     330 <211> LENGTH: 942
     331 <212> TYPE: DNA
     332 <213> ORGANISM: primate
     334 <220> FEATURE:
     335 <221> NAME/KEY: CDS
     336 <222> LOCATION: (1)..(939)
     338 <220> FEATURE:
     339 <221> NAME/KEY: mat_peptide
     340 <222> LOCATION: (64)..(939)
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     344 Met Ala Leu Pro Val Thr Ala Leu Leu Leu Pro Leu Ala Leu Leu Leu
     345     -20                 -15                 -10
     347 cac gcc gcc agg ccg gat tac aag gac gat gac gac aag atc gat ctg   96
     348 His Ala Ala Arg Pro Asp Tyr Lys Asp Asp Asp Asp Lys Ile Asp Leu
     349  -5                  -1   1                   5                  10
     351 agc aaa tgc agg acc gtg gcg ggc ccc gtg ggg gga tcc ctg agt gtg   144
     352 Ser Lys Cys Arg Thr Val Ala Gly Pro Val Gly Gly Ser Leu Ser Val
     353              15                  20                  25
     355 cag tgt ccc tat gag aag gaa cac agg acc ctc aac aaa tac tgg tgc   192
     356 Gln Cys Pro Tyr Glu Lys Glu His Arg Thr Leu Asn Lys Tyr Trp Cys
     357          30                  35                  40
     359 aga cca cca cag att ttc cta tgt gac aag att gtg gag acc aaa ggg   240
     360 Arg Pro Pro Gln Ile Phe Leu Cys Asp Lys Ile Val Glu Thr Lys Gly
```

FYI:

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

VERIFICATION SUMMARY
PATENT APPLICATION: US/09/713,098

DATE: 11/29/2000
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Input Set : A:\1051Q.app
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L:12 M:270 C: Current Application Number differs, Replaced Application Number
L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:280 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:282 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:284 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:286 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:288 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:290 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:292 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:294 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:296 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:298 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:300 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:302 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
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L:310 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:312 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:314 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:316 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:318 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:320 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:322 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:324 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:326 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:619 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:621 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
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L:669 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:671 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:673 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:675 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:677 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9

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Input Set : A:\1051Q.app
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L:683 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:685 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9